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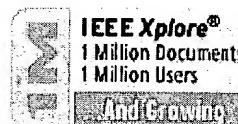
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	69	((computer adj generated adj imag\$5) and ((simulat\$5 render\$5) adj (interior internal room home house dwelling furniture) nera10 (Decorat\$5 design layout))) and (server website) and (GUI (graphical adj user adj interface))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/06/15 16:43
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	909	(render\$5 display\$5) near5 (interior internal room home house) near5 (Decorat\$5 design layout)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/15 17:01
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	386	345/848,849,850,775,852.cccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 11:43
	19	345/848,849,850,775,852.cccls. and ((room home interior) near5 (decorat\$5 design\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 11:46
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	9	700/98.cccls. and ((room home interior) near5 (decorat\$5 design\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 11:55
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	5	((browser internet website web) adj (base\$5 assist\$5 offer\$5)) adj5 ((interi\$5 room house home dwell\$5 kitchen bedroom living dining bathroom) adj5 (design\$5 decorat\$5 furnish\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:51
	14	((browser internet website web) adj (base\$5 assist\$5 offer\$5)) adj10 ((interi\$5 room house home dwell\$5 kitchen bedroom living dining bathroom) adj10 (design\$5 decorat\$5 furnish\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:55
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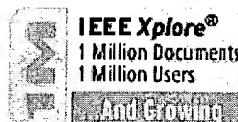
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Zhibin Lei; Yufeng Liang; Weicong Wang;

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**V²ID: virtual visual interior design system**

Zhibin Lei Yufeng Liang Weicong Wang

This paper appears in: Acoustics, Speech, and Signal Processing, 1999. '99. Proceedings., 1999 IEEE International Conference on

Meeting Date: 03/15/1999 - 03/19/1999

Publication Date: 15-19 March 1999

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Inspec Accession Number: 6382045

Abstract:

In this paper we propose a novel system of semantic feature extraction and **interior design and decoration** application. The system, V²ID (virtual visual design), uses colored texture and spatial edge layout to obtain simple information about a room environment. We address the domain specific segmentation problem and the techniques for obtaining semantic features from a room environment. We also discuss heuristics for making use of these features (color, texture or shape) to retrieve objects from an existing database. The final resynthesized room environment with original scene and novel object from database is created for the purpose of animation and virtual room walkthrough.

Index Terms:

computer animation content-based retrieval edge detection feature extraction image analysis image segmentation image texture virtual reality visual databases V²ID color colored texture database decoration domain specific segmentation problem commerce global room environment interior design resynthesized room environment semantic feature extraction semantic features shape spatial edge layout texture virtual room walkthrough virtual visual interior design system

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